

Uranium Energy Corp (UEC)

Goliad Project

Goliad County, Texas

**Application to Conduct In Situ Uranium
Recovery**

July 31, 2007



Uranium Energy Corp

August 7, 2007

Mr. Ben Knape
Underground Injection Control Program
Industrial and Hazardous Waste Permits Section
Texas Commission on Environmental Quality
112100 Park 35 Circle, Building F
Austin, Texas 78753

Re: Uranium Energy Corp (UEC) Mine Permit Application – Goliad Project

Dear Mr. Knape:

Enclosed are four copies (one original and three copies) of UEC's Permit Application to Conduct In Situ Mining of Uranium.

UEC understands that the review process involves providing TCEQ with additional information and clarification. In this regard, UEC will respond promptly to TCEQ's requests.

UEC appreciates the effort TCEQ will make during the processing of our application and we look forward to working with you.

Sincerely,

A handwritten signature in black ink that reads "Harry L. Anthony, IV". The signature is written in a cursive style with a circled "IV" at the end.

Harry L. Anthony, IV P.E.
Chief Operations Officer

Attachments: In Situ Mine Permit Application

TCEQ Core Data Form

TCEQ Use Only

If you have questions on how to fill out this form or about our Central Registry, please contact us at 512-239-5175.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.

SECTION I: General Information												
1. Reason for Submission <i>Example: new wastewater permit, IHW registration, change in customer information; etc.</i>												
New Uranium Mine Permit												
2. Attachments			Describe Any Attachments: (ex: Title V Application, Waste Transporter Application, etc.)									
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Full Mine Permit Application										
3. Customer Reference Number-if issued						4. Regulated Entity Reference Number-if issued						
CN			(9 digits)			RN			(9 digits)			
SECTION II: Customer Information												
5. Customer Role (Proposed or Actual) -- As It Relates to the Regulated Entity Listed on This Form												
Please check <u>one</u> of the following:												
<input type="checkbox"/> Occupational Licensee				<input type="checkbox"/> Volunteer Cleanup Applicant				<input checked="" type="checkbox"/> Owner and Operator				
<input type="checkbox"/> Superfund				<input type="checkbox"/> PST				<input type="checkbox"/> Respondent				
6. General Customer Information												
<input checked="" type="checkbox"/> New Customer						Change to Customer Information						
Change in Regulated Entity Ownership						No Change*						
*If "No Change" and Section I is complete, skip to Section III - Regulated Entity Information.												
7. Type of Customer:												
<input type="checkbox"/> Partnership			<input checked="" type="checkbox"/> Individual			<input type="checkbox"/> Corporation			<input type="checkbox"/> Sole Proprietorship - D.B.A.			
<input type="checkbox"/> State Government			<input type="checkbox"/> County Government			<input type="checkbox"/> Federal Government			<input type="checkbox"/> City Government			
<input type="checkbox"/> Other Government			<input type="checkbox"/> Other									
8. Customer Name (If an individual, please print last name first)												
Uranium Energy Corp						If New Name, Enter Previous Name						
9. Mailing Address												
Uranium Energy Corp												
100 East Kleberg, Suite 210												
City						State		ZIP		ZIP + 4		
Kingsville,						TX		78363				
10. Country Mailing Information if outside USA						11. E-Mail Address if applicable						
						uraniumenergy.com						
12. Telephone Number				13. Extension or Code				14. Fax Number if applicable				
(361) 592-5400								(361) 592-0601				
15. Federal Tax ID (9 digits)				16. State Franchise Tax ID Number if applicable				17. DUNS Number if applicable (9 digits)				
980399476												
18. Number of Employees								19. Independently Owned and Operated?				
<input type="checkbox"/> 0-20		<input checked="" type="checkbox"/> 21-100		<input type="checkbox"/> 101-250		<input type="checkbox"/> 251-500		<input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No
SECTION III: Regulated Entity Information												
20. General Regulated Entity Information												
<input checked="" type="checkbox"/> New Regulated Entity				Change to Regulated Entity Information				No Change*				
*If "No Change" and Section I is complete, skip to Section IV - Preparer Information.												

Press the Tab Key to continue to page 2.

21. Regulated Entity Name (If an individual, please print last name first)					
Uranium Energy Corp					
22. Street Address (No PO Boxes)		Uranium Energy Corp			
		100 East Kleberg, Suite 210			
		City	State	ZIP	ZIP + 4
		Kingsville,	TX	78363	
23. Mailing Address		Uranium Energy Corp			
		100 East Kleberg, Suite 210			
		City	State	ZIP	ZIP + 4
		Kingsville,	TX	78363	
24. E-Mail Address:		www.uraniumenergy.com			
25. Telephone Number		26. Extension or Code		27. Fax Number if applicable	
(361) 592-5400				(361) 592-0601	
28. Primary SIC Code (4 digits)	29. Secondary SIC Code (4 digits)	30. Primary NAICS Code (5 or 6 digits)		31. Secondary NAICS Code (5 or 6 digits)	
1094	2122				
32. What is the Primary Business of this entity? (Please do not repeat the SIC or NAICS description)					
Uranium Mining and Processing					
<i>Questions 33 - 37 address geographic location. Please refer to the instructions for applicability.</i>					
33. County	Goliad				
34. Description of Physical Location					
13.3 miles north on U.S. 183 from the city of Goliad to FM 1961, then two miles east to the site.					
35. Nearest City		State	Nearest Zip		
Goliad		TX	77963		
36. Latitude (N)			37. Longitude (W)		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
28	51	56	97	21	25
38. TCEQ Programs In Which This Regulated Entity Participates <i>Not all programs have been listed. Please add to this list as needed. If you don't know or are unsure, please mark "Unknown". If you know a permit or registration # for this entity, please write it below the program.</i>					
<input type="checkbox"/>	Animal Feeding Operation	<input type="checkbox"/>	Petroleum Storage Tank	<input type="checkbox"/>	Water Rights
<input type="checkbox"/>	Title V - Air	<input type="checkbox"/>	Wastewater Permit	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Industrial & Hazardous Waste	<input type="checkbox"/>	Water Districts	<input type="checkbox"/>	
<input type="checkbox"/>	Municipal Solid Waste	<input type="checkbox"/>	Water Utilities	<input type="checkbox"/>	Unknown
<input checked="" type="checkbox"/>	New Source Review - Air	<input checked="" type="checkbox"/>	Licensing - Types	<input type="checkbox"/>	Radioactive Material License
SECTION IV - Preparer Information					
39. Name			40. Title		
Harry Anthony			Chief Operations Officer		
41. Telephone Number		42. Extension or Code		43. Fax Number if applicable	
(361) 592-5400				(361) 592-0601	
44. E-mail Address:		hanthony@uraniumenergy.com			



AUG - 9 2007

TCEQ/Revenue Section

Texas Commission on Environmental Quality

APPLICATION FOR PERMIT TO CONDUCT IN SITU URANIUM MINING

I. GENERAL INFORMATION

A. Type of permit:

1. Original X Permit Number: _____ (Will Be Assigned)

2. Amendment of Permit Number: _____

B. Applicant: Uranium Energy Corp (UEC) _____ (Individual, Corporation or Other Legal Entity)

Address: 100 East Kleberg, Suite 210 _____ (Permanent Mailing Address)

City: Kingsville State TX Zip 78363

Telephone Number 361.592.5400 _____

Mine Name: Goliad Project County Goliad

Mine Mailing Address (if available): _____

Ownership Status: _____

Check one: Federal [] State [] Private [x] Other Entity []

If the application is submitted on behalf of a corporation, please identify the Charter Number as recorded with the Office of the Secretary of State for Texas.

800436242 _____ (Charter Number)

If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State office and provide a complete mailing address for the agent. The agent must be a Texas resident.

Agent: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Telephone Number: _____

RECEIVED

AUG 09 2007

WASTE PERMITS DIVISION TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

- C. List those persons or firms authorized to act for the applicant during the processing of the permit application. Also indicate the capacity in which each person may represent the applicant (engineering, geology, legal, etc.). The person listed first will be the primary recipient of correspondence regarding this application. Include the complete mailing addresses and phone numbers. **Harry Anthony, COO, UEC, 100 East Kleberg, Suite 210, Kingsville, TX 78363, (361) 592.5400 Mr. Anthony has full overall management responsibility.**

Josh Leftwich, Environmental Manager, UEC (address/phone/fax – same as above), Capacity: company information/technical.

Craig W. Holmes 8107 Pommel Dr., Austin, TX 78759 Telephone: 512. 250.8151

Email: pommelhouse@sbcglobal.net Capacity: Regulatory/permit review/questions in general regarding the application

- D. Specify the individual who will be responsible for causing notice to be published in the newspaper. Include the complete mailing address, telephone number, and fax number. Please provide an e-mail address as well, if available. **Mr. Josh Leftwich, Environmental Manager, UEC, 100 East Kleberg, Suite 210, Kingsville, TX 78363. (361) 592.5400. Fax: (361) 592.0601 Email: jleftwich@uraniumenergy.com**
- E. For applications for new permits, renewals, and major amendments a copy of the administratively complete application must be made available at a public place in the county where the facility is located or proposed to be located for review and copying by the public. Identify the public place in the county (e.g. public library, county court house, city hall), including the address, where the application will be located.
Goliad County Courthouse, P.O. Box 677, Goliad, TX 77963
- F. If application is for amendment to an existing permit, please describe all requested permit changes and the reasons for the request: **N/A**
- H. TCEQ Core Data Form **see attached**

For all applications (new, renewal, major amendment, minor amendment) submitted to the agency after May 25, 2001 complete and submit as Attachment D TCEQ Core Data Form (Form 10400) provided on the following two pages. The most current version of the TCEQ Core Data Form and instructions are available on the forms page of the TCEQ website at:
http://www.tceq.state.tx.us/permitting/central_registry/guidance.html

II. FACILITY BACKGROUND INFORMATION

- A. List all existing or pending State and/or Federal permits, licenses or construction approvals that pertain to pollution control, industrial solid waste management, radioactive materials, or other activities conducted by your facility, at your location, or existing at a proposed facility or location. **UIC Mine Permit, Radioactive Material License, Air Permit Exemption, Class I Waste Disposal Well Permit.**
- B. Brief Description of the Nature of the Business, including the activities conducted by the applicant that require a permit. **In situ uranium recovery**
- C. Location
1. Give a description and a map of the location of the facility site with respect to known or easily identifiable landmarks (see Figure 3). Detail the access routes from the nearest U.S. or State Highway to the facility. **See attached application**

2. Is the facility located on Indian lands? Yes No
3. Is the facility located within the Coastal Management Program boundary?
Yes No

For questions regarding the Coastal Management Program, please call 1-800-85BEACH (1-800-852-3224).

4. Is the facility in an area in which the governing body of the county or municipality has prohibited the processing or disposal of municipal hazardous waste or industrial solid waste (see Texas Health and Safety Code Section 363.112)?
Yes No

If yes, please provide a copy of the ordinance or order.

5. Legal Description of Facility **See attached application**

Submit as "Attachment A" a legal description(s) of the tract or tracts of land referred to in this permit application.

6. Submit as "Attachment B" drawn-to-scale on a topographic map (or other map if a topographic map is unavailable) of the facility and area extending one mile beyond the facility boundaries. Maps must be of material suitable for a permanent record, and be on sheets 8 1/2 inches by 11 inches or folded to that size, and be on a scale of not less than one inch equals one mile. The scale should be adequate to depict the following features:

See attached application

- a. The lease boundaries of the tract of land on which mining and related activities will be conducted, with acreage indicated;
- b. The proposed permit area boundaries, with acreage indicated. (The permit area boundary may be defined by the operator to coincide with or be within the lease ownership boundaries.);
- c. The location of the proposed production and disposal facilities; and
- d. All wells (water, oil and gas, disposal, etc.), springs, other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant in the Area Of Review (AOR, an area that extends to one-quarter mile past the proposed permit boundary), and the purpose for which each water well is used [e.g., domestic, livestock, agricultural, industrial, etc. refer to 30 TAC '305.45(a)(6)]

III. INFORMATION REQUIRED TO PROVIDE NOTICE

Submit as "Attachment C" the following lists of landowners and mineral owners, cross-referenced to a map (see attached example). In addition to paper copies, an electronic copy of these names and addresses (without map and map reference numbers) must be submitted on a separate 3-1/2 inch diskette using WordPerfect7 version 8 word processing software or a 100% compatible format. Label the diskette with the applicant=s name and permit number. Type the permit number and applicant=s name on the top line before typing the addresses. Each entity listed must be blocked and spaced consecutively. Each name and address must be typed in the format that meets the United States Postal Service (USPS) requirements for machine readability.

throughout the AINSTRUCTIONS@ section of this application form (pages i-vii). Contact the USPS for further instructions on formatting addresses for machine readability. [30 TAC '39.405(b)] **See attached application**

- A. Identify and provide a complete mailing address for all landowners adjacent to the proposed permit area and other nearby landowners who might consider themselves affected by the activities described by the application. **See attached application**
- B. Identify and provide a complete mailing address for all mineral owners within the cone of influence as required by 30 TAC '39.251(d)(2). If the name(s) submitted represents less than 100% mineral ownership, specify the total percentage owned by all persons identified. **See attached application.**
- C. If the adjacent property ownership or mineral right ownership lists show the State of Texas to be an adjacent landowner and/or mineral rights owner within the cone of influence, as defined by 30 TAC '331.2, your application may affect lands dedicated to the permanent school fund. Refer to Texas Water Code '5.115. To determine whether lands dedicated to the permanent school fund are affected, you may submit a request which includes the property location to the General Land Office at the following address: **The State of Texas is not a surface or mineral owner adjacent to the site.**

GENERAL LAND OFFICE
DEPUTY COMMISSIONER OF ASSET ACQUISITION
STEVEN F AUSTIN BLDG
1700 N CONGRESS
AUSTIN TX 78701

If it is determined that your application may affect lands dedicated to the permanent school fund, your application must include the following information:

- (1) State the location of the permanent school fund land to be affected; and
- (2) Describe any foreseeable impact or effect of the proposed permitted action on permanent school fund land.

A formal action or ruling by the Commission on an application affecting permanent school fund land that is made without the notice required by the above-referenced rule is voidable by the School Land Board as to any permanent school fund lands affected by the action or ruling. [Texas Water Code 5.115(g)]

- D. Provide the name and mailing address for the State Senator and State Representative in the district in which the well is or will be located. Either local district addresses or capitol addresses are acceptable. [30 TAC '39.251(b)] **Senator Glenn Hegar, P.O. Box 1008, Katy, TX 77492**
Representative Yvonne Gonzalez Toureilles, 700 East 3rd St., Alice, TX 78332
- E. Provide the name and mailing address of the mayor and health authority of the municipality in whose territorial limits or extraterritorial jurisdiction the well is or will be located, and also the county judge and the health authority of the county in which the facility is located. [30 TAC '39.251(c)(2)] **The site is not in an ETJ or municipal boundary**
- F. Bilingual Notice Instructions. For certain permit applications, public notice in an alternate language is required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education

speaking student population exist. However, there may not exist any bilingual-speaking students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as a part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program on-site, or has students who attend such a program at another location in satisfaction of the school's obligation to provide such a program as a member of a triggered district.

If it is determined that a bilingual notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language. Electronic versions of the Spanish template examples are available from the TCEQ to help the applicant complete the publication in the alternative language.

Bilingual notice confirmation for this application:

1. Is a bilingual program required by the Texas Education Code in the school district where the facility is located? Yes No

(If NO, alternative language notice publication not required)

2. If YES to question 1, are students enrolled in a bilingual education program at either the elementary school or the middle school nearest to the facility? Yes No

(If YES to questions 1 and 2, alternative language publication is required; If NO to question 2, then consider the next question)

3. If YES to question 1, are there students enrolled at either the elementary school or the middle school nearest to the facility who attend a bilingual education program at another location? Yes No

(If Yes to questions 1 and 3, alternative language publication is required; If NO to question 3, then consider the next question)

4. If YES to question 1, would either the elementary school or the middle school nearest to the facility be required to provide a bilingual education program but for the fact that it secured a waiver from this requirement, as available under 19 TAC §89.1205(g)? Yes No

(If Yes to questions 1 and 4, alternative language publication is required; If NO to question 4, alternative language notice publication not required)

If a bilingual education program(s) is provided by either the elementary school or the middle school nearest to the facility, which language(s) is required by the bilingual program?

IV. FINANCIAL ASSURANCE

Submit as "Attachment E", information regarding the financial assurance plan as referenced below.

See attached application

A. Financial Assurance Information Requirements for all Applicants

1. Financial Assurance for Closure

1. Plan View - A legible and reproducible plan view locating and identifying (Figure 2):
 - a. the permit area boundary;
 - b. the buffer areas;
 - c. the individual initially proposed mine areas with acreage of the areas, production and disposal facilities, depth to the production zone and mean sea level of the production zone indicated. See **Figure 1.3, Project Map in the Technical Report**

B Schedule - A schedule with estimated starting and completion dates of production and restoration in the mine areas identified above. See **Table 8.1, Mine Plan in the Technical Report**

VIII. EXCURSION PREVENTION - Provide a detailed description of the procedures to be used to prevent excursions horizontally in the production zone and vertically into non-production zones. These procedures may involve a bleed system, frequent conductivity change evaluation, water level evaluation, production volume evaluation and production adjustment, as well as procedures for maintaining a balanced wellfield. See **attached Technical Report**

IX. RESTORATION

- A. Provide a description of restoration procedures proposed. See **attached Technical Report**
- B. Provide documentation of the effectiveness of the proposed restoration procedure or a description of how this documentation will be provided. See **attached Technical Report**
- C. Provide a description of the proposed procedure to be used to document and report restoration progress. See **attached Technical Report**
- D. Provide a description of the fluid handling capacity of the disposal facilities required to accomplish restoration using the proposed restoration procedure within the time frame specified in the mine plan. See **attached Technical Report, Section 10.0 and Table 10.1**

X. Aquifer Exemption

Provide a complete delineation of any aquifer or portion of an aquifer for which exempt status will be necessary.

See **attached Technical Report, Section 14.0**

Signature: _____

(applicant or applicant's authorized agent)

Date: July 27, 2007

SIGNATURE PAGE

I, Harry Anthony, Chief Operations Officer, Uranium Energy Corp (UEC)
Applicant Title

Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

[Handwritten Signature]
(applicant or applicant's authorized agent)

Date: July 27, 2007

TO BE COMPLETED BY THE APPLICANT IF THE APPLICATION IS SIGNED BY AN AGENT FOR THE APPLICANT

I, _____ (applicant) hereby designate _____ (agent)

as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Applicant or Principal Executive Officer

Signature

(Note: Application Must Bear Signature & Seal of Notary Public)

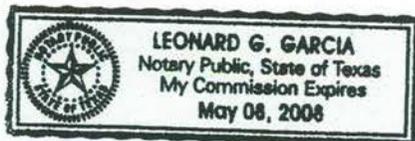
SUBSCRIBED AND SWORN to before me by the said Harry L. Anthony

on this 27th day of July, 2007

My commission expires on the 8th day of May, 2008.

Notary Public in and for

Tarrant County, Texas
[Handwritten Signature]



SIGNATURE PAGE

Signature of the Technical Report Supervisor

The technical report of the application must be signed by the technical report supervisor. The supervisor must be a professional engineer, registered in the State of Texas, or a geologist. The technical report supervisor must be competent and experienced in the Class III Underground Injection Control program and be thoroughly familiar with the operation or project for which the application is made. Attach a copy of the supervisor's resume.

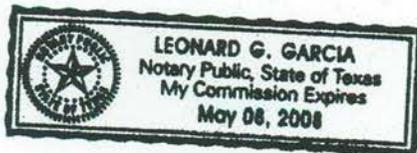
I, Harry Anthony, Chief Operations Officer, Uranium Energy Corp (UEC)
Applicant Title

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: *H. L. Anthony* Date: July 27, 2007

(Note: Application Must Bear Signature & Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Harry L. Anthony
on this 27th day of July, 2007.
My commission expires on the 8th day of May, 2008.



Travis County
Notary Public in and for
[Signature] County, Texas

SIGNATURE PAGE

I, Harry L. Anthony (applicant), Chief Operations Officer (title)

Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [Handwritten Signature] (applicant or applicant's authorized agent) Date: January 30, 2008

TO BE COMPLETED BY THE APPLICANT IF THE APPLICATION IS SIGNED BY AN AGENT FOR THE APPLICANT

I, _____ (applicant) hereby designate _____ (agent)

as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Applicant or Principal Executive Officer

Signature

(Note: Application Must Bear Signature & Seal of Notary Public)

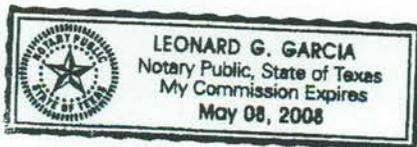
SUBSCRIBED AND SWORN to before me by the said Harry L. Anthony

on this 30th day of January, 2008

My commission expires on the 8th day of May, 2008

[Handwritten Signature]
Notary Public in and for

Travis County, Texas



TECHNICAL REPORT

SIGNATURE PAGE

Signature of the Technical Report Supervisor

The technical report of the application must be signed by the technical report supervisor. The supervisor must be a professional engineer, registered in the State of Texas, or a geologist. The technical report supervisor must be competent and experienced in the Class III Underground Injection Control program and be thoroughly familiar with the operation or project for which the application is made. Attach a copy of the supervisor's resume.

I, Harry L. Anthony, Chief Operations Officer
(technical report supervisor) (title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Harry L. Anthony Date: January 30, 2008

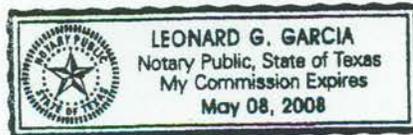
(Note: Application Must Bear Signature & Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Harry L. Anthony
on this 30th day of January, 2008.
My commission expires on the 8th day of May, 2008.

Leonard G. Garcia
Notary Public in and for
Tarrant County, Texas



Jan 30, 2008



HARRY L. ANTHONY, IV, P.E.

EDUCATION

M.S. in Engineering Mechanics, Pennsylvania State University, 1973
B.S. in Engineering Mechanics, Pennsylvania State University, 1969

EXPERIENCE

Chief Operations Officer – Director
(2006 – Present)

Uranium Energy Corporation
Kingsville, Texas

Consultant - Part Time
(1997-2006)

Anthony Engineering Services
Kingsville, Texas

Consultant for several major uranium companies and international agency. Project evaluation, operations "trouble shooter," and technical and financial expert.

Sr. Vice President
(1990-1997)

Uranium Resources, Inc
Kingsville, Texas

Responsibilities included: oversight of construction, technical aspects, and daily operations of plants and wellfields; budget planning and forecasting; property evaluations; and reserve estimations. Managed all facets of operations and technical support to achieve production goals: drilling, ion exchange, reverse osmosis, software development, and equipment design. Served on URI Board of Directors from 1984-1994.

Vice President, Engineering (1984-1990)
Engineering Manager (1978-1984)

Uranium Resources, Inc.
Kingsville, Texas

Evaluated properties for development. Planned and managed reserve delineation programs. Planned, drilled and implemented construction of wellfields. Performed engineering design and managed development of ISL recovery facilities.

Designed, procured, built and operated:

1979 - URI/Coastal States Bruni ISL Project – Texas, 500 gpm
1980 - URI/Conoco/Framco Benavides Project – Texas, 850 gpm
1981 - Tenneco's West Cole Project- Texas, 1500 gpm (URI full turnkey contract)
1982 - URI North Platte Pilot - Wyoming, 50 gpm
1987 - URI Kingsville Dome Project – Texas, 5,500 gpm
1990 - URI Rosita Project – Texas, 3,800 gpm

Project Superintendent
(1976-1977)

Union Carbide Corp.
Benavides, Texas

Operated pilot plant and commercial facility at Palangana ISL uranium recovery project. Responsible for plant and wellfield operations.

Project Engineer
(1970-1976)

Union Carbide Corp.
Marietta, Ohio

Performed work related to: electrolytic chromium processing involving hi-carbon ferrochrome dissolution with H_2SO_4 vacuum crystallization, and electrowinning of high purity chrome used in the making of stainless steels; and tantalum/columbium extraction utilizing HF and H_2SO_4 leach, solvent extraction, precipitation, and calcining to recover rare earths from tin slags smelted in Thailand.

Harry L. Anthony, IV, P.E.

Selected Uranium In-Situ Leach (ISL) Projects

COUNTRY	PROJECT DESCRIPTION	CLIENT
U.S.A.	Feasibility Study of Gas Hills Project, Wyoming	Uranium Resources, Inc.
U.S.A.	Feasibility Study of Tennessee Valley Authority's Morton Ranch Property, Wyoming	Uranium Resources, Inc.
U.S.A.	Feasibility Study of Power Resources Inc.'s Highland Operations, Wyoming	Uranium Resources, Inc.
U.S.A.	Feasibility Study of COGEMA's Alta Mesa	Uranium Resources, Inc.
U.S.A.	Evaluation of Mobil's Holiday-EI Mesquite Project,	Urangesellschaft
U.S.A.	Feasibility Study of Crow Butte ISL Operations, Nebraska	Uranium Resources, Inc.
Mongolia	Feasibility Study for the Haraat ISL Project, Gobi Desert	Uranium Resources, Inc.
U.S.A.	Feasibility Study of Kingsville Dome Project, Texas	Uranium Resources, Inc.
U.S.A.	Feasibility Study of Rosita Project, Texas	Uranium Resources, Inc.
U.S.A.	Feasibility Study of Reno Creek Project, Wyoming	Energy Fuels
U.S.A.	Feasibility Study of Bruni Project, Texas	Uranium Resources, Inc.
U.S.A.	Feasibility Study of Benavides Project, Texas	Uranium Resources, Inc.
U.S.A.	Feasibility Study of HRI's Churchrock Project	Uranium Resources, Inc.
U.S.A.	Feasibility Study of HRI's Crownpoint Project	Uranium Resources, Inc.
U.S.A.	Feasibility Study of Conoco's Trevino Project, TX	Urangesellschaft
U.S.A.	Provided technical advice for Smith Ranch wellfield	Rio Algom Mining Corp
Australia	Feasibility Study of Heathgate's Beverley ISL Project	Heathgate Resources Pty
U.S.A.	Evaluation of Properties and Claims. Wyoming	Kennecott
U.S.A.	Provided technical advice for Alta Mesa permitting.	Mestena Uranium LLC
Australia	Evaluated a major mining project for a major third party.	Anderson & Schwab
Kazakhstan	Resource analysis of Irkol. A Kazatomprom project.	Itochu
Uzbekistan	Navoi Mining & Metallurgical Combine	Nukem
U.S.A.	Hosta Butt, Hansen Project review	Quincy Resources
U.S.A.	Unidentified South Texas project	Uranium Energy Corp
U.S.A.	Provide technical advice for multiple projects	Energy Metals Corp.

PUBLICATIONS AND PRESENTATIONS

"ISL Wellfield Reserves," presented at the Casper SME Uranium Conference, Casper, Wyoming, July, 2006

"ISL Pattern Reserve Requirements for Today's Spot Price," presented at The 30th International Symposium on the Process Metallurgy of Uranium, Saskatoon, Saskatchewan, Canada, September, 2000

"Economic and Technical Aspects of ISL Uranium Mining," two days of lectures sponsored by the International Atomic Energy Agency (IAEA) in Casper, Wyoming for third world mining representatives, September, 1998.

"Radiation Workshop," organized and produced this one day seminar at Univ. of Texas Health Science Center, San Antonio, Texas, 1983.

"Wellfield Operations," 3rd Annual Uranium Seminar, Casper, Wyoming, 1979.

"Polythionate Poisoning of IX Resins," Presentation at 2nd Annual Uranium Seminar, Corpus Christi, Texas, 1977.

MEMBERSHIPS

Registered Professional Engineer, State of Texas #47592
President, Kingsville Council of the Navy League, 1999, 2000, 2002, 2003
President, Kingsville Chamber of Commerce, 1995-1996
President, Kingsville Rotary Club, 1987-1988
President, South Texas Section of AIME, 1984 and 1987
Member, Kleberg County United Way Advisory Committee, 1998-2005
Board Member, Kingsville Chamber of Commerce, 1990-2000
Board member, Kingsville Council of the Navy League 1998-2006

AWARDS

Distinguished Member of the South Texas Mineral Section of AIME – 1987
1999 Outstanding Citizen of the Year – Kingsville Chamber of Commerce
Scroll of Honor, 2004 – United States Navy League

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- Appendix B: Well Logs/Completion Reports
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Project Overview

Uranium Energy Corp (UEC) is developing a uranium in situ recovery (ISR) operation in northern Goliad County. Although a detailed description of the project is given in subsequent sections of this application, a brief summary of the project is provided here.

UEC began developing the Goliad Project in 2006. The project began with the acquisition and analysis of an important database which was acquired from Moore Energy. The Moore Energy database was developed in the 1980s. As with most projects supported by a solid database, the first order of business was devoted to becoming more intimately familiar with the information and to validate its worth. After UEC accomplished this first goal, an exploration program was put into action to expand the knowledge of the resource and to more precisely delineate known ore bodies. Higher precision delineation was accomplished by drilling and logging numerous bore holes proximate to earlier exploration drilling. In addition, known ore trends were expanded by supplemental exploration drilling.

Following a thorough examination of the database, and an aggressive one-year exploration program, UEC has determined that the Goliad Project is a viable and important venture. As evidenced by this application, UEC is pursuing a Mine Permit and all other authorizations that are required for uranium mining and processing.

The first phase of this project is estimated to last for 9 years. This 9 year time frame includes production and restoration. In all likelihood, the project will last much longer than this initial estimate. Exploration activities continue to show additional deposits nearby that will no doubt extend the project life well beyond an estimated 9 year life.

UEC's Goliad project will be exclusively devoted to the long-proven technique of in situ recovery (ISR). This method of mining has a minimal impact on the environment. Because it employs water wells to tap the ore resource, the removal of overburden is unnecessary and therefore physical impacts to the surface and subsurface are insignificant and transitory.

Other beneficial features of ISR technology are summarized below.

- Because the ore is recovered without removing overburden or constructing underground tunnels, the highly mineralized portion of the aquifer (the production zone) remains physically intact. In contrast, surface mining and underground mining significantly alter the ore zones by physically removing the material with heavy equipment.
- ISR does not generate a significant amount of solid waste. Again, because the media (the aquifer sand) containing the ore is left in place and because overburden is not removed, the ISR process minimizes the generation of solid waste.
- Uranium recovery is confined to small portions of aquifers that contain naturally elevated levels of uranium, radium-226 and other metals. The concentration of these elements far exceeds U.S. EPA Drinking Water Standards. Using water of this quality for other purposes such as irrigated agriculture or livestock watering is also not advisable. Although these small, naturally mineralized sands contain poor quality water, they also contain a significant energy source.
- As shown in subsequent sections of this application the ISR method employs a number of highly protective measures to ensure that good quality water outside the production zone will not be affected by the operation. Although these safeguards have an excellent performance record spanning 30 years, improvements have been made to provide additional assurance that the operation will not have a significant impact on groundwater quality.
- Modern ISR operations are more conservative of water consumption. Compared to the past, Reverse Osmosis (R.O.) is used more extensively during the mining and restoration phases. R.O. not only conserves water, it provides for more efficient ore recovery and accelerates groundwater restoration.
- In summary, UEC is engaged in an important part of the energy business. To meet future U.S. energy demands, the uranium fuel cycle must take on a larger role. The development of South Texas' extensive uranium deposits hopefully will help fulfill this much needed demand. In return, the South Texas economy will benefit through added economic diversity and good paying jobs.

Although various public benefits and interests were summarized above, the following discussion expands on this subject.

Section 27.051(a)(1) and (2) provide that “[t]he commission may grant an application . . . and may issue the permit if it finds:

- (1) that the use or installation of the injection well is in the public interest;
- (2) that no existing rights, including, but not limited to, mineral rights, will be impaired”

Section 27.051(d) directs the commission, in making its public interest determination, to consider the applicant’s compliance history and whether there is a practical, economic, and feasible alternative to an injection well reasonably available. To date, as described in UEC’s answer to No. 1 above, UEC has no compliance history as that term is defined in Section 27.051(d)(1).

There are alternative methods for recovering uranium that do not involve the use of injection wells – *e.g.*, underground and surface (open pit) mining – but these alternatives are not practical, economic, or feasible in South Texas. For example, surface mining is not practical in many areas throughout South Texas because the vast majority of the ore deposits are not near the surface and the recovery cost is prohibitive in the current market; underground mining is not practical in South Texas for similar economic reasons. Both methods would entail de-watering the portions of the aquifer in which the ore is deposited. Similarly, both of these alternative methods have significantly higher production costs than in situ recovery (“ISR”) and therefore, the economics of the ore reserve must be commensurately higher to make these types of recovery feasible from an economic standpoint. As is true of other ISR projects, the nature of the deposits (ore grade, recoverable pounds and depth) at the Goliad Project do not lend themselves to recovery by costly surface or underground mining. In short, there is no other recovery alternative that is economically feasible.

Section 27.003 describes the other public interest considerations identified by the legislature with respect to the use of injection wells.

Maintain Quality and Prevent Pollution of Freshwater

A large portion of the Application is devoted to addressing the protection of groundwater quality. Specifically, hydrological testing to fully characterize the portions of the aquifer to be mined and the placement of monitoring wells both within and overlying the ore zones are described in Section 11; the geology and the mine area – with particular emphasis on the confining clay layers – is detailed in Section 7 and the attached cross-sections; well completion, construction, and mechanical integrity requirements are addressed in Section 9, along with measures to prevent and address excursions; Section 8 provides that reverse osmosis will be initiated during the recovery phase and that restoration efforts in each area will begin immediately after mining is concluded; and finally, well plugging and abandonment and financial assurance to guarantee proper plugging and abandonment are discussed in Sections 9 and 13. All of these measures are designed to maintain the quality of any freshwater that exists in areas surrounding the ore sands.

Public Health and Welfare

Extensive radiological modeling has shown that potential impacts to the public health and the environment are not significant. Site-specific radiological (air dispersion) modeling is being conducted and will be submitted to TCEQ as part of the multi-step permitting process. Workers are protected through compliance with numerous highly protective occupational health standards. Protective measures for workers necessarily result in a high level of protection for the general public as well. Compliance with these standards are demonstrated through (1) measurements with numerous instruments during operations; (2) bioassays; (3) unannounced inspections by the Radiation Safety Officer; (4) annual independent audits; (5) preparation of Standard Operation;

Procedures; (6) worker exposures monitored with TLD badges; (7) TCEQ inspections; and (8) record-keeping and other mechanisms that provide assurance that worker exposure to radioactive materials is kept As Low As Is Reasonably Achievable ("ALARA"). In addition, occupational health and safety statistics (by industry) show underground mining and surface mining to be in the higher risk categories as compared to ISR.

Operation of Existing Uranium Industry

In the late 1970s and 1980s, the United States was the number one producer of uranium in the world, and uranium recovery operations have been part of the Texas economy for decades. The industry creates a significant number of high paying, long-term jobs and contributes to the tax base in the largely rural communities in which it operates. For example, UEC's Goliad Project, if authorized to develop, will employ approximately 80 workers. The industry is also, obviously, a necessary link in the chain for sustaining the growing nuclear power plant demands (and power plant industry) here in Texas and the rest of the United States.

Since there is currently no practical, economically feasible alternative to ISR in South Texas, prohibiting the industry from using injection wells to recover this resource will either shut the industry in Texas down, or, if market conditions improve, force the industry to turn to more costly and invasive methods of recovery. A negative regulatory climate could also force the industry to focus its recovery activities in other uranium-rich states. Neither of these scenarios is in the public's best interest.

Economic Development

According to the Department of Energy, the National Energy Policy recommends expanding the role of nuclear energy as a major component of the United States "energy picture." Meanwhile, energy demand in the United States is expected to grow by almost 50% by 2030, according to the Energy Information Administration.

Sufficient, reasonably-priced energy is essential for economic development. Nuclear energy – and therefore recovery of uranium – is a vital part of Texas' and the United States' economic development.

Under Section 27.051(a)(2), the commission must also consider whether existing rights, including mineral rights, will be impaired. If authorized, the Goliad Project will not impair any existing rights, including mineral rights. On the contrary, it will allow the mineral owners within the permit area to utilize and benefit from their mineral rights. In addition, operations at the Goliad Project will not affect the operation of any existing exempt or permitted groundwater well located outside the permitted area. Finally, as described in Section 2 of the Application, all mineral owners within the proposed permit area also own the surface. Consequently, no surface property rights will be impaired by the Project.

1.0 Site Location and Description

Uranium Energy Corp's (UEC) project site is located in Goliad County (see Figure 1.1 General Project Location). Locally, the project site is in northern Goliad County. As shown on Figure 1.2, the site is adjacent to and south of Fifteen Mile Creek. Fifteen Mile Creek separates Goliad County from Dewitt County. The nearest major towns are Goliad which is approximately 13 miles to the south and Cuero which is approximately 18 miles to the north.

The proposed permit area encompasses 1139.4 acres. A review of Figure 1.3 Project Map (see Map Appendix) shows the topography and drainage features of the site. Generally, the site occupies a ridge between Fifteen Mile Creek on the north and Eighteen Mile Creek on the south. Elevation across the site ranges from approximately 200 feet above mean sea level (msl) in the northeastern and southeastern sections to about 260 feet above msl in the western-most part of the permit area. The site has several intermittent drainage features and a few stock tanks. These features can be seen on Figure 1.3. The process facility will be located in the western part of the permit area at an elevation of approximately 235 feet above msl. Because of its elevated location, the facility will be protected from flooding.

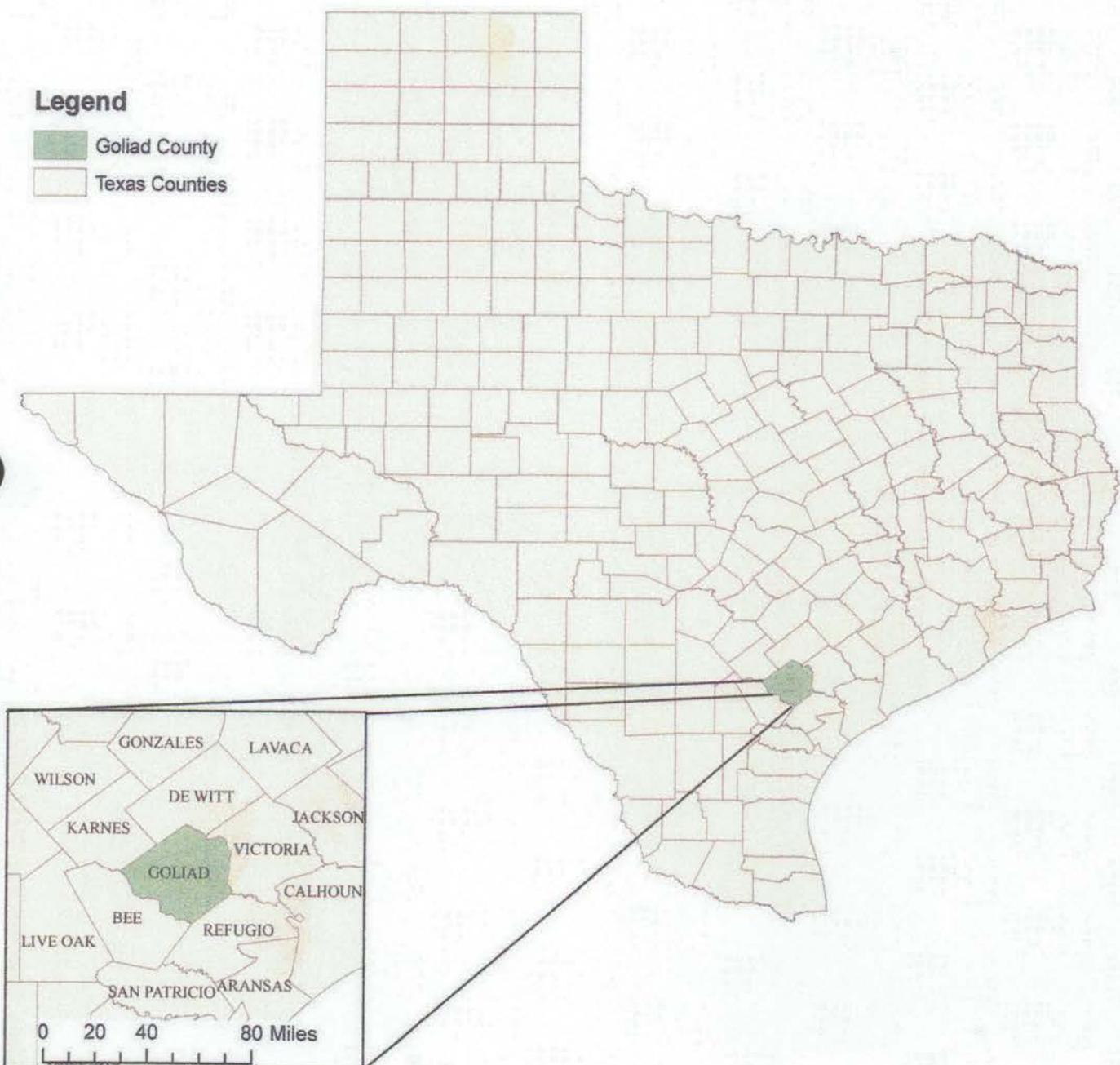
Figure 1.3 also shows the location of UEC's initial production areas with respect to the process facility and the permit boundary. Currently there are four planned production areas. The approximate acreage of the initial production areas is also listed on the map, along with the average depths and average thicknesses of each production zone. The permit area shows two faults: Northwest Fault and Southeast Fault. The faults and the site-specific geology and hydrology are discussed in Sections 6.0 and 7.0. Information provided on Figure 1.3 and on Figures 3.1 and 4.1 in subsequent sections of the application has been combined and placed on Figure 1.4 (Appendix C).

Figure 1.1 Project Location



Legend

-  Goliad County
-  Texas Counties



1-2

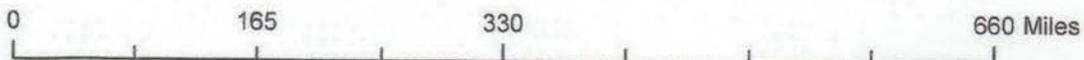


Figure 1.2 Project Site Within Goliad County

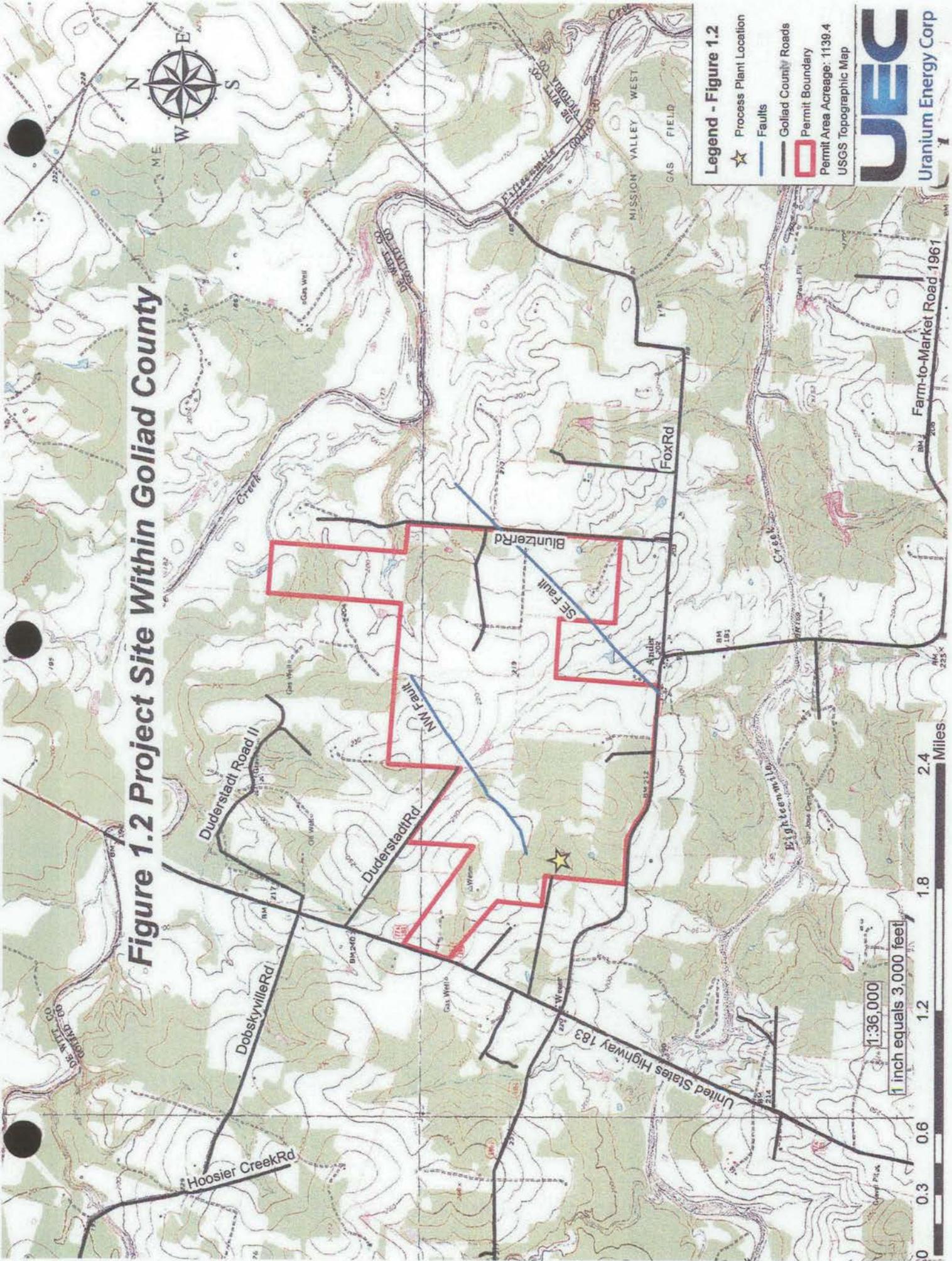


Figure 1.3 Project Map (see Map Appendix)

2.0 Land and Mineral Ownership

2.1 Ownership Adjacent to the Permit Area

Surface and mineral ownership adjacent to the permit boundary was researched through county courthouse records. Per TCEQ requirements, owners and their contact information have been summarized in Tables 2.1 and 2.2., and Figure 2.1 shows the location of the surface and mineral owners with respect to UEC's Permit Boundary.

2.2 Ownership within the Permit Area

UEC retained a professional land surveyor, Black Gold Surveying & Engineering, Inc., to survey the Permit Boundary of the project site. The results of the survey are given in Figure 2.2. As can be seen from the map, the 1140.42 acre (more or less) permit boundary is presented on the Peter Gass Survey, A-129, the Squire Burns Survey A-69 and the H.M Frazier Survey A-123 and Squire Burns Survey A-70. Surface and mineral owners within the Permit Boundary are shown on Figure 2.2A, and their contact information is listed in Table 2.3.

Table 2.1 Adjacent Surface Ownership

Adjacent Tracts	Surface Owners	Acres	Interest	Survey
1	James Bluntzer 1260 Bluntzer Road Goliad TX 77963 361-645-8129	80.925	1.0000	A-69
2	Margaret B. Rutherford 1256 Bluntzer Rd. Goliad, TX 77963 361-645-2083	37.721	1.0000	A-69
3	Margaret B. Rutherford 1256 Bluntzer Rd. Goliad, TX 77963 361-645-2083	11.130	1.0000	A-69
4	Joseph R. Jacob 213 N. Church Goliad, TX 77963 361-645-3519	263.000	1.0000	A-251 A-118
5	Otto Bluntzer, Jr. 95 Mariposa Dr. Rochester, NY 14624	81.249	1.0000	A-251
6	Mary Bluntzer Gray P.O. Box 876 Craig, CO 81626	81.249	1.0000	A-251
7	Diana Schrade Slafka 12800 Plymouth Circle Anchorage, AK 99516 907-344-3506	52.740	0.5000	A-70 A-129
	Sharon Schrade Bryan 8847 Wood Lane Madisonville, TX 77864 936-348-5642	52.740	0.5000	A-70 A-129
8	Diana Schrade Slafka 12800 Plymouth Circle Anchorage, AK 99516 907-344-3506	80.200	0.5000	A-70 A-129
	Sharon Schrade Bryan 8847 Wood Lane Madisonville, TX 77864 936-348-5642	80.200	0.5000	A-70 A-129
9	Jon Arlis Adickes 14691 FM 1346 St. Hedwig, TX 78152 210-667-1848	1.500	0.3333	A-184

	Laura Sue Adickes Rogers Route 2, Box 272 Canyon, TX 79015 806-488-2313	1.500	0.3333	A-184
	Amy Lynn Adickes Wilburn Route 3 Goliad, TX 77963 361-645-1837	1.500	0.3333	A-184
10	June Bethke 1593 E. FM 1961 Goliad, TX 77963 361-645-2708	7.922	1.0000	A-184
11	St. Peter's Lutheran Church 1545 E. FM 1961 Yorktown, TX 78164 361-645-2922	0.138	1.0000	A-184
12	St. Peter's Lutheran Church 1545 E. FM 1961 Yorktown, TX 78164 361-645-2922	4.460	1.0000	A-184
13	Harold Baecker 135 N. Mesquite Victoria, TX 361-578-3738	229.860	0.2562	A-184
	Nancy Gerhardt 3210 Knoll Manor Kingwood, TX 281-360-2102	229.860	0.6082	A-184
	Glen Baecker 1451 FM RD 1961 Goliad, TX 77963 361-645-8719 361-645-1021	229.860	0.1356	A-184
14	Randy Liesman 215 E. Edgewood San Antonio, TX 78209 210-826-0358	200.310	0.5000	A-129 A-200
	Bruce D. Liesman 215 E. Edgewood San Antonio, TX 78209 210-826-5362	200.310	0.5000	A-129 A-200
15	Pam Long PO Box 222 Goliad, TX 77963 361-564-2214	28.126	1.0000	A-129
16	Jo Nell Martin 641 Crestview Drive Victoria, TX 77905 361-578-3926	28.126	1.0000	A-129

17	William & Diana Cheek 4617 Cobblestone Corpus Christie, TX 78411 361-986-1211	84.360	1.0000	A-129
18	Vergie Bitterly 1804 E. Locust Victoria, TX 77901 361-573-6147	70.411	1.0000	A-129 A-495 A-289
19	Deanna Wacker 1703 E. Locust Victoria, TX 77901 361-573-3625	70.411	1.0000	A-129 A-495 A-289
20	Cecilia Gleinser Edwards 50 P.R. 5711 Gonzales, TX 78629 830-672-8373	36.139	1.0000	A-129
21	Thomas & Mary Anklam 14859 N. US Hwy 77a-183 Yorktown, TX 78164 361-564-9152	20.000	1.0000	A-129
22	Michael & Kay Walker 5964 FM 1351 Goliad, TX 77963 361-645-1925	64.330	1.0000	A-129
23	Craig Layne Duderstadt 722 Duderstadt Road Yorktown, TX 78164 361-564-2081	100.000	1.0000	A-129
24	Ernest & Frances Hausman Revoacable Living Trust 103 Oxford Drive San Antonio, TX 78213 210-344-1448	261.370	1.0000	A-69
25	Diana Schrade Slafka 12800 Plymouth Circle Anchorage, AK 99516 907-344-3506	193.100	0.5000	A-69
	Sharon Schrade Bryan 8847 Wood Lane Madisonville, TX 77864 936-348-5642	193.100	0.5000	A-69

Table 2.2 Adjacent Mineral Ownership

Adjacent Tracts	Mineral Owners	Acres	Interest	Survey
1	James Bluntzer 1260 Bluntzer Road Goliad TX 77963 361-645-8129	80.925	1.0000	A-69
2	Margaret B. Rutherford 1256 Bluntzer Rd. Goliad, TX 77963 361-645-2083	37.721	1.0000	A-69
3	Margaret B. Rutherford 1256 Bluntzer Rd. Goliad, TX 77963 361-645-2083	11.130	1.0000	A-69
4	Joseph R. Jacob 213 N. Church Goliad, TX 77963 361-645-3519	263.000	1.0000	A-251 A-118
5	Otto Bluntzer, Jr. 95 Mariposa Dr. Rochester, NY 1462	81.249	1.0000	A-251
6	Mary Bluntzer Gray P.O. Box 876 Craig, CO 81626	81.249	1.0000	A-251
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	Sharon Schrade Bryan 8847 Wood Lane Madisonville, TX 77864 936-348-5642	52.740	0.5000	A-70 A-129
8	Diana Schrade Slafka 12800 Plymouth Circle Anchorage, AK 99516 907-344-3506	80.200	0.5000	A-70 A-129
	Sharon Schrade Bryan 8847 Wood Lane Madisonville, TX 77864 936-348-5642	80.200	0.5000	A-70 A-129

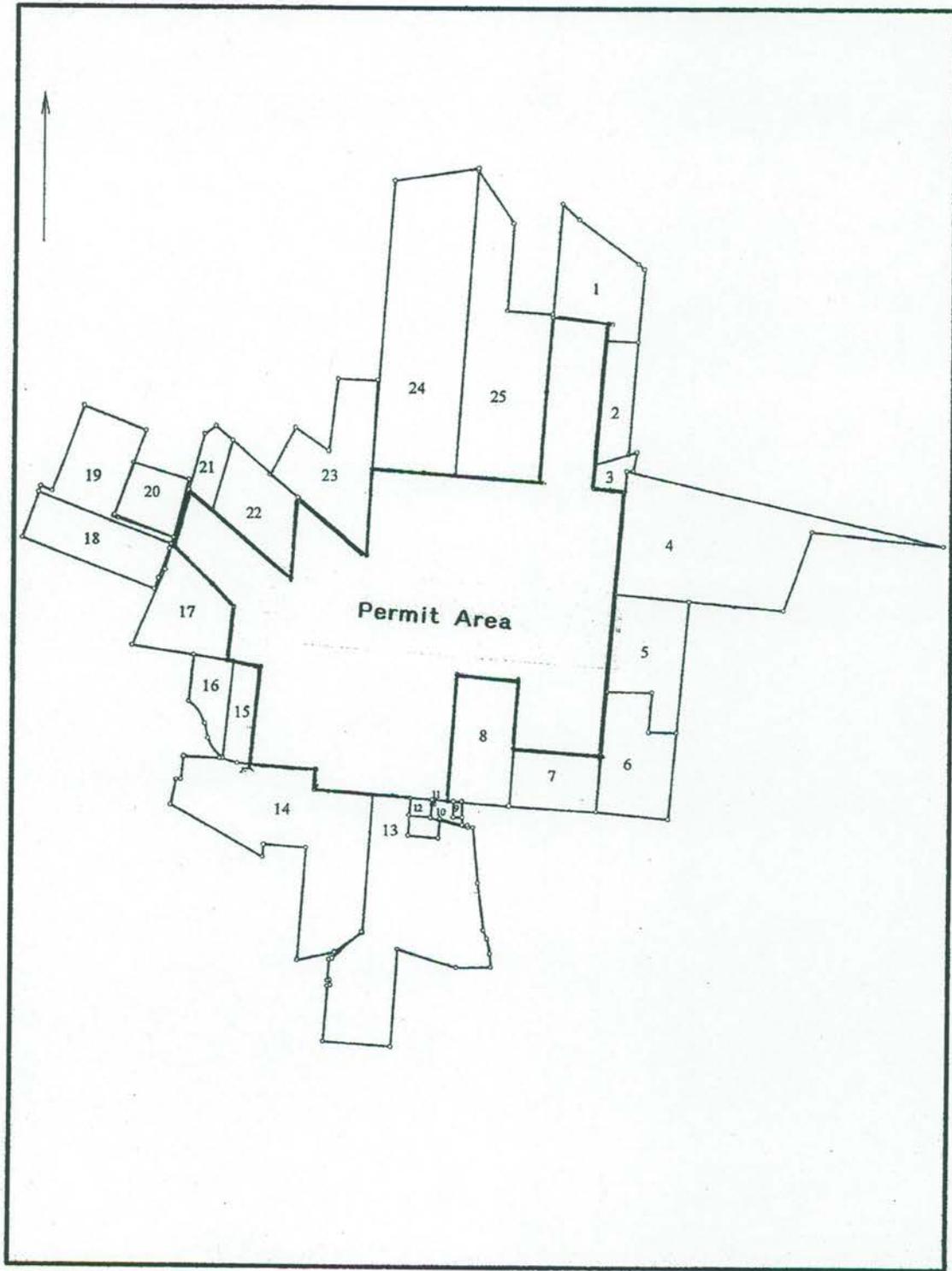
9	Jon Arlis Adickes 14691 FM 1346 St. Hedwig, TX 78152 210-667-1848	1.500	0.3333	A-184
	Laura Sue Adickes Rogers Route 2, Box 272 Canyon, TX 79015 806-488-2313	1.500	0.3333	A-184
	Amy Lynn Adickes Wilburn Route 3 Goliad, TX 77963 361-645-1837	1.500	0.3333	A-184
10	June Bethke 1593 E. FM 1961 Goliad, TX 77963 361-645-2708	7.922	1.0000	A-184
11	St. Peter's Lutheran Church 1545 E. FM 1961 Yorktown, TX 78164 361-645-2922	0.138	1.0000	A-184
12	St. Peter's Lutheran Church 1545 E. FM 1961 Yorktown, TX 78164 361-645-2922	4.460	1.0000	A-184
13	Harold Baecker 135 N. Mesquite Victoria, TX 361-578-3738	229.860	0.5000	A-184
	Nancy Gerhardt 3210 Knoll Manor Kingwood, TX 281-360-2102	229.860	0.5000	A-184
14	Randy Liesman 215 E. Edgewood San Antonio, TX 78209 210-826-0358	200.310	0.2500	A-129 A-200
	Bruce D. Liesman 215 E. Edgewood San Antonio, TX 78209 210-826-5362	200.310	0.2500	A-129 A-200
	Glyn Jacobs 29930 Cibolo Ct. Fair Oaks Ranch, TX 78015 830-755-8778	200.310	0.2500	A-129 A-200
	Cynthia Gail Garrett 367 US Hwy 1838 Cuero, TX 77954	200.310	0.1250	A-129 A-200

	Keith Wayne Schindler 367 US Hwy 183S Cuero, TX 77954 361-275-8076	200.310	0.1250	A-129 A-200
15	Pam Long PO Box 222 Goliad, TX 77963 361-564-2214	84.360	0.3333	A-129
	Jo Nell Martin 641 Crestview Drive Victoria, TX 77905 361-578-3926	84.360	0.3333	A-129
	Bonnie Schley Route 4, Box 46 Cuero, TX 77954 361-277-3083	84.360	0.3333	A-129
16	Jo Nell Martin 641 Crestview Drive Victoria, TX 77905 361-578-3926	84.360	0.3333	A-129
	Pam Long PO Box 222 Goliad, TX 77963	84.360	0.3333	A-129
	Bonnie Schley Route 4, Box 46 Cuero, TX 77954 361-277-3083	84.360	0.3333	A-129
17	William & Diana Cheek 4617 Cobblestone Corpus Christie, TX 78411 361-986-1211	84.360	1.0000	A-129
18	Vergie Bitterly 1804 E. Locust Victoria, TX 77901 361-573-6147	70.411	0.2500	A-129 A-495 A-289
	Deanna Wacker 1703 E. Locust Victoria, TX 77901	70.411	0.2500	A-129 A-495 A-289
	Dwane Bruns 11638 FM 622 Goliad, TX 77963 361-645-2044	70.411	0.2500	A-129 A-495 A-289
	Reta Bruns Brown Weesatche Hwy Goliad, TX 77963 361-645-3917	70.411	0.2500	A-129 A-495 A-289

19	Deanna Wacker 1703 E. Locust Victoria, TX 77901 361-573-3625	70.411	1.0000	A-129 A-495 A-289
	Dwane Bruns 11638 FM 622 Goliad, TX 77963 361-645-2044	70.411	0.2500	A-129 A-495 A-289
	Reta Bruns Brown Weesatche Hwy Goliad, TX 77963 361-645-3917	70.411	0.2500	A-129 A-495 A-289
	Vergie Bitterly 1804 E. Locust Victoria, TX 77901 361-573-6147	70.411	0.2500	A-129 A-495 A-289
20	Cecilia Gleinser Edwards 50 P.R. 5711 Gonzales, TX 78629 830-672-8373	36.139	1.0000	A-129
21	Thomas & Mary Anklam 14859 N. US Hwy 77a-183 Yorktown, TX 78164 361-564-9152	20.000	0.0313	A-129
	Michael & Kay Walker 5964 FM 1351 Goliad, TX 77963 361-645-1925	20.000	0.0938	A-129
	Edna & Russell Jarvis 2401 Repsdorph Road Kemah, TX 77565 281-326-0314	20.000	0.5000	A-129
	Jackie Parks 563 Mission Valley Road Cuero, TX 77954 361-277-8318	20.000	0.1875	A-129
	Scott & Margaret Fagan 802 N. Carancahua St., Ste 1655 Corpus Christi, TX 78470 361-992-7171	20.000	0.1875	A-129
22	Michael & Kay Walker 5964 FM 1351 Goliad, TX 77963 361-645-1925	64.330	0.1250	A-129
	Edna & Russell Jarvis 2401 Repsdorph Road Kemah, TX 77565 281-326-0314	64.330	0.5000	A-129
	Jackie Parks 563 Mission Valley Road Cuero, TX 77954 361-277-8318	64.330	0.1875	A-129

	Scott & Margaret Fagain 802 N. Carancahua St., Ste 1655 Corpus Christi, TX 78470	64.330	0.1875	A-129
23	Darwyn & Waynell Duderstadt 1708 Wise Road Yorktown, TX 78164 361-564-2958	100.000	1.0000	A-129
24	Ernest & Frances Hausman Revoacable Living Trust 103 Oxford Drive San Antonio, TX 78213 210-344-1448	261.370	1.0000	A-69
25	Diana Schrade Slafka 12800 Plymouth Circle Anchorage, AK 99516 907-344-3506	193.100	0.5000	A-69
	Sharon Schrade Bryan 8847 Wood Lane Madisonville, TX 77864 936-348-5642	193.100	0.5000	A-69

Figure 2.1
Adjacent Surface and Mineral Ownership
Scale: 1 inch = 2500 feet



PETER GASS
A-129

SQUIRE BURNS
A-69

L. EDWARDS
A-118

H.M. FRAZIER
A-123

A. SIGMON
A-251

SQUIRE BURNS
A-70

N: 13506280.85
E: 2492348.85
FIR 5/8"

N: 13505258.07
E: 2492083.85
HWY CON. MON.

N: 13505107.86
E: 2492043.06
FC

N: 13503878.08
E: 2493369.14

N: 13502734.72
E: 2493276.41

N: 13500603.03
E: 2493822.30

F.M. 1961

N: 13500007.51
E: 2495189.69

N: 13506215.38
E: 2494671.84
FIR 5/8" BENT

N: 13504510.76
E: 2494600.48
FIR 5/8" CAP

N: 13502649.15
E: 2493971.16
FIR 1/2" BENT

N: 13500552.40
E: 2495219.44

N: 13499871.90
E: 2497597.07

N: 13499842.37
E: 2497595.46

N: 13506754.22
E: 2496415.96
FC

N: 13504891.16
E: 2496351.24
FC

N: 13502468.94
E: 2498434.12

N: 13502404.69
E: 2499745.54

N: 13500961.15
E: 2499664.07
FC

N: 13500855.12
E: 2501543.23
FC

N: 13509938.28
E: 2500179.30

N: 13509848.77
E: 2501337.59

N: 13506399.26
E: 2501159.78
FC

N: 13506344.40
E: 2501829.92
FC



SCALE: 1" = 2000 FEET

COORDINATES SHOWN ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83, SOUTH CENTRAL ZONE WITH CONTROL ESTABLISHED BASED ON THE FOLLOWING COORDINATE VALUES FOR NGS STATION "SCHROEDER"
Y=13,484,798.35 X=2,539,542.22

FIGURE 2-2 MAP OF:

PERMIT AREA FOR:

URANIUM ENERGY CORP.

BEING 1,140.42 ACRES, MORE OR LESS, OUT OF THE PETER GASS SURVEY, A-129, THE SQUIRE BURNS SURVEY, A-69, THE H.M. FRAZIER SURVEY, A-123 AND THE SQUIRE BURNS SURVEY, A-70, ALL IN GOLIAD COUNTY, TEXAS, AND BEING LOCATED APPROXIMATELY 13.3 MILES N 08°09' E OF GOLIAD, TEXAS.

I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, AND BELIEF, AS SURVEYED ON THE GROUND, JULY 16 & 19, 2007.

Trey L. McDermett

TREY L. McDERMETT
R.P.L.S. # 5652



BLACK GOLD SURVEYING & ENGINEERING, INC.

Land & Oilfield Surveying
2711 West Front St. P.O. Box 3416
Alice, Texas 78333
blackgoldsurveying@abcglobal.net
(361) 668-9200 Fax (361) 668-9204

Completion Date: 7-20-07	File Name: 070633
Scale: 1"=2000'	Surveyed by: TM/FT
Drawn by: TM/DT	Checked by: TM/DT

PLOT DATE: 07-20-07 10:12 AM

JOB # 070633

Table 2.3 Permit Area Lessors

- 1 Gary Halepeska
962 Bluntzer Rd.
Goliad, TX 77963

- 2 Elder Abrameit
1005 FM 622
Victoria, TX 77905

- 3 Margaret Braquet
c/o Sydney Braquet
1324 Cortland Street #1
Houston, TX 77008

- 4 David Cheek
14319 North U.S. Hwy 183
Yorktown, TX 78164

- 5 R.G. Stanford
695 Stanford Lane
Victoria, TX 77905

- 6 Sharon Schrade Bryan
8847 Wood Lane
Madisonville, TX 77864

- 6 Diana Schrade Slafka
12800 Plymouth Circle
Anchorage, AK 99516

Note: See Figure 2.2A for the location of lessors.



Figure 2.2A Internal Ownership

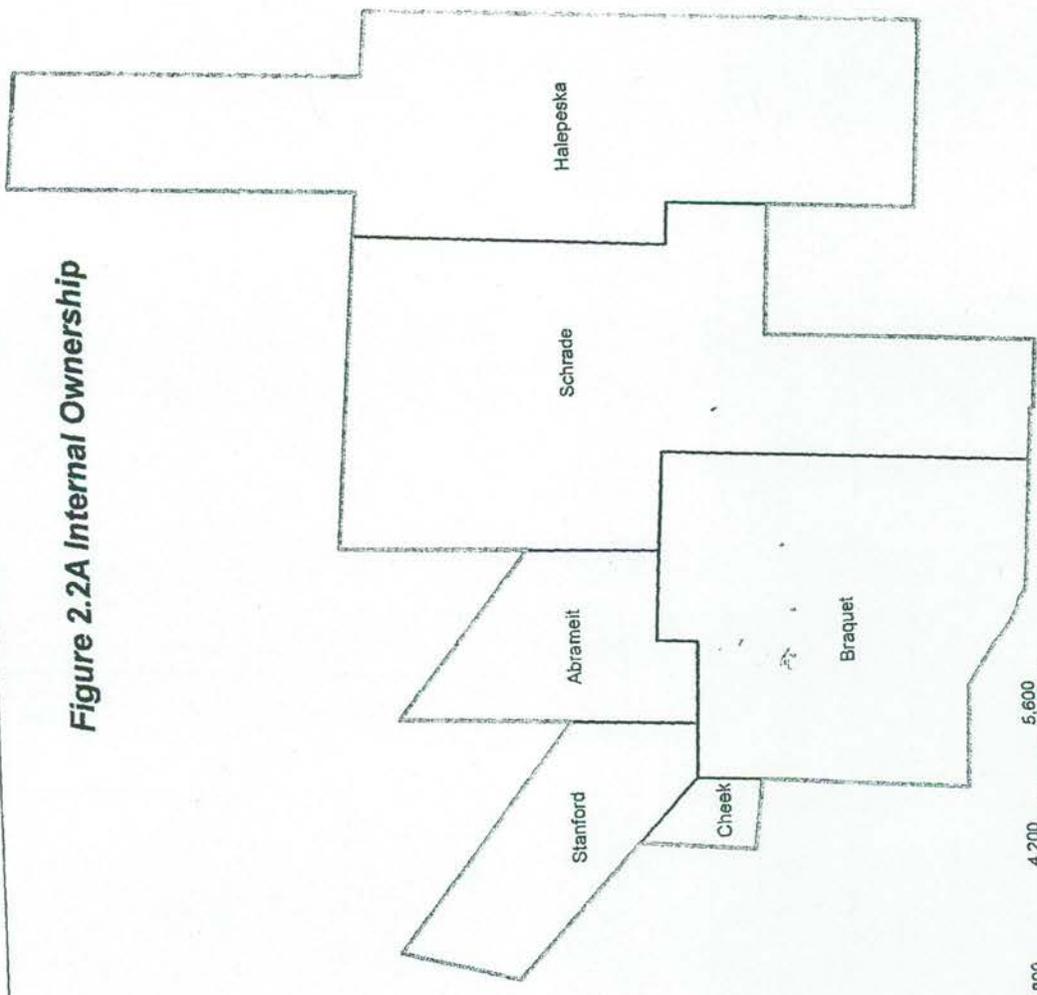


Figure 2.2 A

- Permit Boundary
- Lease Lines


Uranium Energy Corp
Map Created January 21, 2008



3.0 Land Use

Land use within and surrounding UEC's project site primarily consists of oil/gas exploration and development, cropland, cattle ranching and rural residential housing. Another important land use includes uranium exploration and development. Uranium exploration land use began in the early 1980s when prices were high enough to support the industry. As prices fell below production cost, the industry went dormant until 2004. During the past few years the price of uranium has steadily climbed, and it is expected to remain at a level that will support a large industry. For this reason, uranium exploration and development has returned to Goliad County.

As required by the Texas Commission on Environmental Quality (TCEQ), a person filing a Uranium Mine Application must conduct a survey of all artificial penetrations (water wells, gas wells, oil wells, injection wells, dry holes, etc.) within the Area of Review (AOR). The AOR for the type of mining being proposed by UEC must include the Permit Area and the area within $\frac{1}{4}$ mile of the Permit Boundary. The survey must include information on the type of well or hole, the year it was drilled, its current status, its depth, the lease name and other pertinent data that can be reasonably gleaned from the public record. The data must be presented in a summary table which is cross indexed to a map showing the location of the penetrations relative to the Permit Area. The survey completed by UEC is given in Table 3.1 and Figure 3.1

As can be seen from Table 3.1, 56 penetrations were found in Railroad Commission (RRC) records. The vast majority of the penetrations are plugged gas wells and dry holes. Out of the 56 penetrations there are only 2 producing oil/gas wells (one well is west of the permit area boundary and the other is southeast of the permit boundary). There are no waste disposal wells within the AOR.

It was noted in the opening paragraph of this section that the area in and around UEC's project site is a rural setting with land uses that include agriculture, residential and oil/gas development.

With the exception of a small church and cemetery and the community of Ander (population 35), both located immediately south of the permit area, there are no commercial centers, schools or public facilities within or adjacent to UEC's site. Figure 3-2 in the Map Appendix is an aerial photograph of the project area. The photograph identifies the various land uses described herein.

**Table 3.1
Non-Freshwater Artificial Penetrations within 0.25 Miles of Permit Boundary
Uranium Energy Corp**

AOR Map ID No.	API NUMBER	OPERATOR	LEASE	WELL NO.	SURVEY	YEAR DRILLED	TOTAL DEPTH	WELL STATUS	RRC FORMS AVAILABLE	Surface Casing Depth (ft KB)
1	175	Edmond J. Ford Jr. & Harry W. Hamilton	A.F. Jacob	1	S. Burns A-69	1963	5,418	Dry Hole	W1, W3	260
2	17531085	Gene Martin	E.P. Turnimison	1	L. Edwards A-118	1978	5,312	Plugged Gas Well	W1, G1, W3	536
3	17535973	Mayfair Minerals, Inc.	A.F. Jacob	1	L. Edwards A-119	1957	8,700	Dry Hole	1, 2A, 2, 4	852
4	17531077	Edmond J. Ford Jr. & Harry W. Hamilton	A.L. Gayda	1	S. Burns A-69	1963	5,421	Plugged Gas Well	1, 2, GWT1, W3,	257
5	17500638	Edmond J. Ford Jr. & Harry W. Hamilton	Mathilde Krueger	1	S. Burns A-69	1962	5,330	Plugged Gas Well	1, 2, GTW1, W3	107
6	175	Tenneco Corporation	H.A. Bomba	2	P. Gass A129	1962	4,974	Dry Hole	1, 2A, 4	515
7	175	Claude B. Hamill	Mathilde Krueger	1	S. Burns A-69	1959	5,350	Dry Hole	1, 2A, 4	406
8	17531455	Varn Petroleum	Slafka et al	1	S. Burns A-69	1981	5,362	Dry Hole	W1, W3, W-15	532
9	17531871	Edmond J. Ford Jr. & Harry W. Hamilton	Marnie Housman	2	S. Burns A-69	1984	5,300	Plugged Gas Well	W1(2), G1(2), W3	525
10	17534186	W.C. McBride, Inc., et al / Currie B. Davis	Mary Williams	1	S. Burns A-69	1953	4,369	Dry Hole	1(2), 2A, 4	834
11	175	Armstrong & Horn	Mary Williams	1	S. Burns A-69	1956	5,309	Dry Hole	1, 2A, 4	112
12	17533636	Modern Exploration, Inc.	Bobbe Jack	1	P. Gass A129	2004	5,400	Dry Hole	W1, W3, W15	716
13	17530329	Texas Oil & Gas Corp.	L. Renfro	1	P. Gass A129	1975	5,462	Plugged Gas Well	W1, G1, W2, W3	494
14	17530356	Texas Oil & Gas Corp.	O. Duderstadt	1	P. Gass A129	1975	5,462	Plugged Oil Well	W1(2), W2(2), W3	532
15	175-39231	Tennessee Gas Transmission Co.	Alois Gisler	1	P. Gass A129	1958	8,080	Dry Hole	1, 2A, 4	1,618
16	17532753	Allegro Investments, Inc.	Edwards Unit	1	P. Gass A129	1994	9,000	Producing Oil Well	W1(3), G1(2), W2	1,606
17	175-29438	Dillard & Waltermire	O.P. Jacobs Heirs	1	P. Gass A129	1946	9,020	Dry Hole	1, 2A, 4	1,618
18	17530357	Texas Oil & Gas Corp.	S. Bruns	1	P. Gass A129	1975	5,468	Plugged Gas Well	W1, G1, W3, W15	534
19	175	Edmond J. Ford Jr. & Harry W. Hamilton	Oscar Bruns	1	P. Gass A129	1962	5,410	Plugged Gas Well	1, 2, GWT1, 2A, 4	156
20	175	Edmond J. Ford Jr. & Harry W. Hamilton	Alois Gisler	1	P. Gass A129	1961	8,515	Plugged Gas Well	1, 2(2), GWT1(2), 24	1,012
21	175	Edmond J. Ford Jr. & Harry W. Hamilton	Alois Gisler	1	P. Gass A139	1961	5,414	Plugged Gas Well	1, 2(2), 3, GWT1, 4	169
22	17530330	Texas Oil & Gas Corp.	Elder Abrameit	1	P. Gass A149	1975	5,462	Plugged Oil/Gas Well	W1, G1, W2, W3, W15	569
23	17533602	Modern Exploration, Inc.	Duderstadt	1	P. Gass A129	2004	5,500	Temporarily Abandoned	W1, G1	566

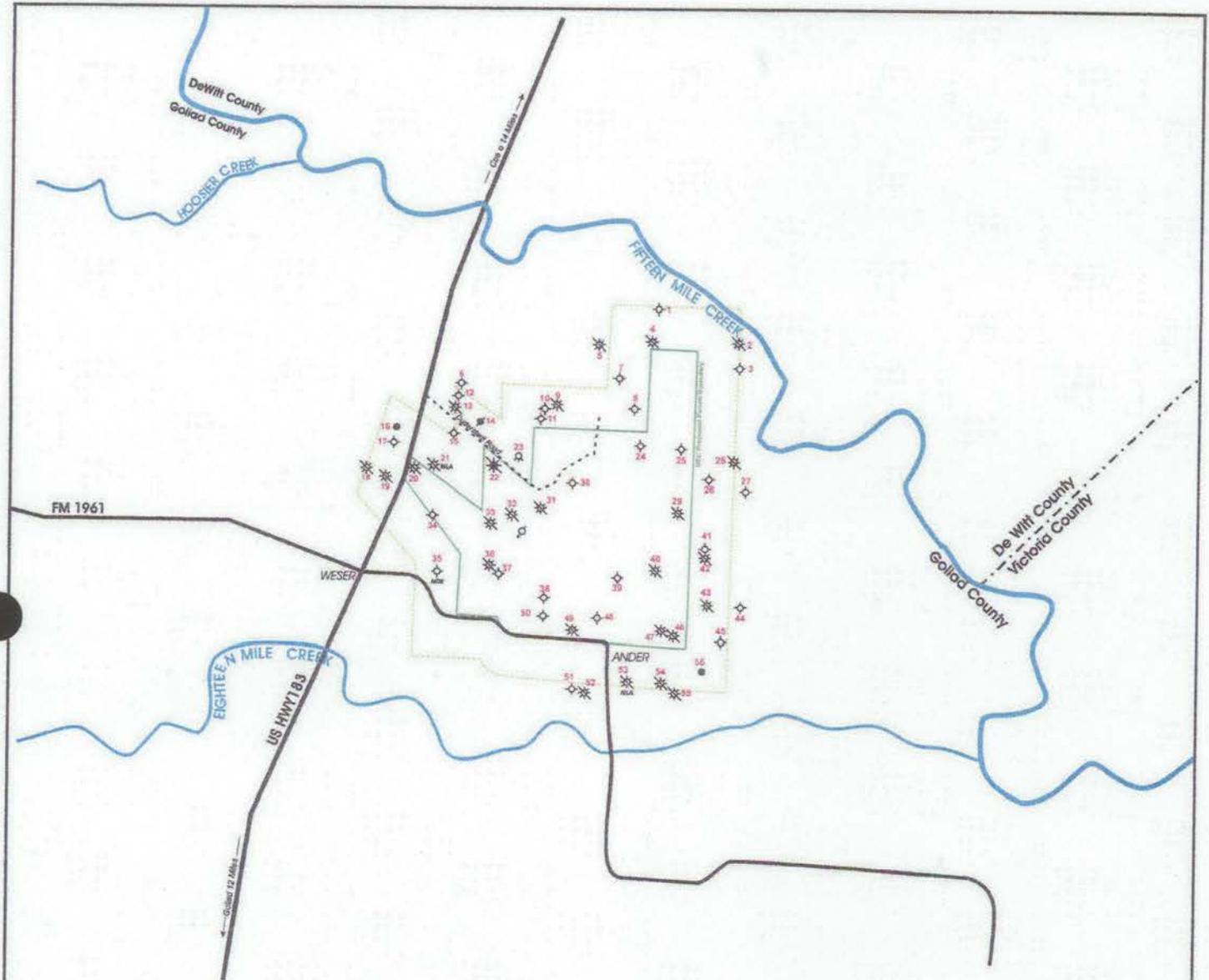
**Table 3.1
Non-Freshwater Artificial Penetrations within 0.25 Miles of Permit Boundary
Uranium Energy Corp**

AOR Map ID No.	API NUMBER	OPERATOR	LEASE	WELL NO.	SURVEY	YEAR DRILLED	TOTAL DEPTH	WELL STATUS	RRC FORMS AVAILABLE	Surface Casing Depth (ft KB)
24	17531435	Arthur Cook / Nugget Oil Corp.	Gary Halepeska et al	1	H. Frazier A123	1981	5,357	Dry Hole	W1, W3, W21	501
25	17531019	Richard Damer	Robert Halepeska	1	H. Frazier A123	1977	8,612	Dry Hole	W1, W3, W15,	801
26	17531274	Chapman Oil / TEE Operating	Jacob Gas Unit	1	A. Sigman A251	1987	9,016	Plugged Gas Well	W1, G1(2), W3, W15	1,644
27	17531881	Tricentral Resources Inc.	Jacob	2	A. Sigman A251	1984	1,454	Dry Hole	W1, W3, W15	487
28	17531806	Tricentral Resources Inc.	Jacob	1	A. Sigman A251	1984	1,450	Dry Hole	W1, W3, W15	297
29	17530638	Nugget Oil Corp.	Gary Halepeska et al	2	H. Frazier A123	1982	1,924	Plugged Gas Well	W1(3), G1, W3	N/A
30	17530558	Clevenger & Quigley	Sharon Schrade Boyd et al	1	H. Frazier A123	1976	5,512	Dry Hole	W1, W3, W15(2),	465
31	17534526	Texas Oil & Gas Corp.	Mathilde Krueger	1	H. Frazier A123	1964	1,715	Plugged Gas Well	1, 2, GWT1, 2A, 4	237
32	17533813	Edmond J. Ford Jr. & Harry W. Hamilton / David H. Arrington Oil & Gas, Inc.	Alois Gisler	2	P. Gass A129	1964	8,518	Plugged Gas Well	1, 2, GWT1, 2A, 4	449
33	175	Edmond J. Ford Jr. & Harry W. Hamilton	Alois Gisler "B"	1	P. Gass A129	1962	5,414	Plugged Gas Well	1, 2, GWT1, 2A, 4	137
34	175	Edmond J. Ford Jr. & Harry W. Hamilton	Alois Gisler	2	P. Gass A129	1961	5,427	Dry Hole	W1, W3, W31	158
35	17532045	Nugget Oil Corp.	E. Gisler	1	P. Gass A129	1985	1,510	Dry Hole	W1, W3, W15(3),	42
36	17531659	Nugget Oil Corp.	Gleinser	2	P. Gass A129	1982	5,600	Plugged Gas Well	W1, G1, W3	402
37	17531790	Nugget Oil Corp.	Gleinser	3	P. Gass A129	1983	631	Dry Hole	W1, W3, W15	N/A
38	175	Kirby Petroleum Co.	Charles Gleinser et al	1	S. Burns A70	1950	5,614	Dry Hole	1, 2, 4	547
39	17532156	Nugget Oil Corp.	Schrade	1	S. Burns A70	1986	1,445	Dry Hole	W1, W3, W15	1077
40	17531647	Coral Petroleum Dev. Inc. / Tricentral Resources Inc. / B.M.K. Operating Co.	Leola F. Gleinser	1	S. Burns A70	1982	5,500	Plugged Gas Well	W1(2), G1, W3	548
41	17531813	Tricentral Resources Inc.	Turnlinson-Tolbert Gas Unit #1	2	A. Sigman A251	1984	860	Dry Hole	W1, W3, W15	337
42	17531823	Tricentral Resources Inc.	Turnlinson-Tolbert Gas Unit #2	2A	A. Sigman A251	1984	1,451	Plugged Gas Well	W1, G1, W3	296
43	17531553	Coral Petroleum Dev. Inc.	Turnlinson	1	A. Sigman A251	1981	2,970	Plugged Gas Well	W1(2), G1(2), W3	125
44	175	Hickok & Reynolds, Inc.	M. Wilms	1	A. Sigman A251	1953	5,578	Dry Hole	1, 2A, 4	610
45	17532563	Beach Exploration, Inc	Blumtzer Unit	1	A. Sigman A251	1990	9,012	Dry Hole	W1, W3, W15	1,640
46	175	Hickok & Reynolds, Inc. & W.L. Pickens	Mathilde Krueger	1	P. Gass A129	1954	5,500	Plugged Gas Well	1, 2, GWT1, 2A, 4	1,643

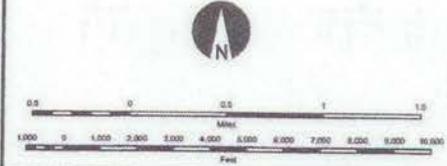
**Table 3.1
Non-Freshwater Artificial Penetrations within 0.25 Miles of Permit Boundary
Uranium Energy Corp**

AOR Map ID No.	API NUMBER	OPERATOR	LEASE	WELL NO.	SURVEY	YEAR DRILLED	TOTAL DEPTH	WELL STATUS	RRC FORMS AVAILABLE	Surface Casing Depth (ft KB)
47	17531492	LaTerre Resources Corp. / Coral Petroleum Dev. Inc. / B. K. M. Operating Co.	L.E. Schrade	1	P. Gass A129	1981	5,536	Plugged Gas Well	W1(3), G1(2), W3	608
48	17531742	Tricentral Resources Inc.	Schrade	2	P. Gass A129	1983	3,000	Dry Hole	W1, W3	531
49	17533001	Tri-C Resources	Schrade	1	P. Gass A129	1997	3,510	Plugged Gas Well	W1(2), G1, W3	372
50	17531650	Nugget Oil Corp.	Gleinser Unit	1	P. Gass A129	1982	1,540	Dry Hole	W1, W3	N/A
51	17530391	Perkins Oil Company	Marjorie Baecker	1	A. Linville A184	1975	5,615	Dry Hole	W1, W3, W25	671
52	17531538	Risa Energy Corp. / Petroleum Ventures of Texas, Inc.		1	A. Linville A184	1982	2,211	Plugged Gas Well	W1, G1, W3	408
53	17532173	Oil & Gas Properties, Inc.	Kamin et al	1	A. Linville A184	1986	1,510	Plugged Gas Well	W1, G1, W3	None
54	17531356	Coral Petroleum Dev. Inc. / LaTerre Resources Corp. / Wintershall Corp.	Paul Breeden	1	A. Linville A184	1981	5,508	Plugged Gas Well	W1(2), G1, W3	619
55	175	Hickok & Reynolds, Inc. & W.L. Pickens	Alois Willms	1	A. Linville A184	1953	5,494	Unknown	1, 2, GWT1	1,635
56	17533842	Pogo Producing Company	P.H. Breeden	1	A. Linville A184	2006	11,600	Producing Oil/Gas Well	W1	N/A

Notes: N/A = Not Available
KB = Kelly Bushing



NOTE:
Numbered Locations keyed to Table 3.1



Map Explanation	
⊛ Dry Hole	⊛ Plugged Oil & Gas Well
⊛ Producing Gas Well	⊛ Proposed Injection Well
⊛ Shut-in Gas Well (Temporary P/A)	⊛ Existing Injection Well
⊛ Plugged Gas Well	
⊛ Producing Oil Well	
⊛ Plugged Oil Well	
⊛ Producing Oil & Gas Well	

FIGURE 3.1
Non-Freshwater Artificial Penetrations within a 0.25-Mile Radius of Permit Boundary
 Prepared For:
Uranium Energy Corp

DRAWN BY: Woggar-Eide & Associates, LLC	DATE: 3/12/07
DRAWING NO: Fig 3-1 Quarter Mile Radius.cdw	SCALE: 1" = 2,000' See Scale Bar

Figure 3.2 Land Use Aerial Photograph (see Map Appendix)

4.0 Water Well Inventory

4.1 Methods

One of the required elements of an application for an in situ uranium recovery operation is a water well inventory. The area that must be included in the inventory is described in 30 TAC Rule § 331.42 Area of Review (AOR). For a Class III Area Permit, the AOR must encompass an area extending at least a ¼ mile beyond the permit boundary. In developing the water well inventory, UEC extended the AOR to a distance of 1 km beyond the permit boundary, or nearly 2.5 times the required minimum distance. Records were also reviewed for municipal water supply wells within 5 miles of the site.

After mapping the AOR, a search was made in the Texas Water Development Board's (TWDB) Water Information Integration and Dissemination (WIID) database for wells of record. Information obtained from this source was combined with data from water well drilling reports. Although the TWDB database provides extensive information on water wells such as location, ownership, water quality, date drilled, use, etc., a significant number of water wells remain unrecorded. The primary reason for wells not being in the system can be attributed to the fact that they were completed prior to the development and implementation of rules requiring documentation. Knowing this, UEC supplemented the records with information gathered during the field reconnaissance phase. The reconnaissance involved driving throughout the AOR to visually spot a well or a feature that would likely have a well associated with it. Upon completion of the steps just described, plans were made to contact the well owners to obtain permission to sample their wells.

UEC's land experts began contacting well owners approximately two weeks prior to sample collection. The sampling effort was completed between December 13, 2006 and January 3, 2007. The first day was devoted to obtaining sample containers and ice chests and calibrating instruments.

The protocol that was followed for sample collection, preservation and reporting was based on TCEQ's Technical Guide 1 Groundwater Analysis and U.S. EPA's Methods for Chemical Analysis of Water and Wastes. The methods given in these two documents are briefly summarized below.

Before collecting a water sample the well should be allowed to run for a sufficient period of time to ensure stability. Stability is verified by recording three to four measurements of pH, temperature and conductivity. When these parameters become reasonably stable in a natural range, a sample can be collected. Upon collection, samples should be preserved using appropriate EPA methods.

Using the above guidance, wells were allowed to run for 20 to 25 minutes. During this time, a minimum of three readings were taken for pH, conductivity and temperature. After the values became stable, a sample was collected. Immediately upon collection, samples were placed in ice and delivered to Jordan Laboratories in Corpus Christi on the same day, along with a chain of custody.

While collecting samples, efforts were made to obtain as much information as possible about the wells by interviewing the owners. Important information included well depth, use (domestic, livestock, agricultural, etc.), aquifer, screened interval, pump setting, lift method, water level, chemical analysis, date drilled and casing material. In addition to this, UEC recorded the location of each well using a GPS instrument.

4.2 Existing Wells

Unfortunately,¹ details on wells, especially older wells, are somewhat limited, and comprehensive chemical analyses are almost always non-existent. Even modern water wells often lack detailed chemical analysis. The information database on the water wells within a 1 km radius of UEC's proposed permit boundary was significantly expanded when UEC completed the survey and sampled the wells. Table 4.1 provides a summary of well ownership, use, depth, aquifer name, and a few other details, and Figure 4.1 shows where the wells are located with respect to the proposed permit boundary.

Table 4.1 Water Well Inventory

Well Name	Use	Construction	Lift Method	Depth Feet From Surface	Water Level Feet BLG*	Aquifer
J. Jacob 1 (1)	D	PVC	S	80	53.87***	Goliad
J. Jacob 2 (2)	A	PVC	S	---	---	Goliad
M. Rutherford 1(3)	D	PVC	S	100	---	Goliad
M. Rutherford 2 (4)	D	PVC	S	120	---	Goliad
J. Bluntzer 1(5)	D	PVC	S	---	---	Goliad
M. Wesselman 1(6)	D	PVC	S	---	---	Goliad
M. Walker 1 (8)	D	---	S	---	---	Goliad
C. Duderstaedt 1 (9)	D	PVC	S	---	49.93***	Goliad
C. Duderstaedt 2 (10)	A	---	S	---	---	Goliad
E. Hausman 1 (11)	D	PVC	S	225	---	Goliad
E. Hausman 2 (12)	D	---	S	---	---	Goliad
D. Cheek 1 (13)	D/A	---	S	---	---	Goliad
D. Cheek 2 (14)	D/A	---	S	---	---	Goliad
O. Bluntzer 1 (15)	D	---	S	128	80***	Goliad
G. Halepeska 1 (18)	D/A	---	S	---	---	Goliad
G. Halepeska 2 (19)	A	PVC	S	---	---	Goliad
T. Anklam 1 (20)	D/A	---	S	300	86.6**	Goliad
T. Long 1 (21)	D	---	S	80	---	Goliad
A. Bade 1 (22)	D	Steel	S	86	31**	Goliad
A. Bade 2 (23)	D	---	S	---	49.05	Goliad
M. Braquet 1 (24)	D	PVC	S	---	67.74**	Goliad
M. Braquet 2 (25)	D	PVC	S	---	---	Goliad
Church 1 (26)	D	PVC	S	---	---	Goliad
Church 2 (27)	D	PVC	S	---	---	Goliad
C. Tolbert 1 (28)	D	PVC	S	---	58.31**	Goliad
R.Tolbert 2 (29)	D	Steel	S	---	---	Goliad
H. Martin (30)	A	PVC	S	---	---	Goliad
O. Bluntzer 2 (16)	A	---	S	---	---	Goliad
R. Stanford 1 (31)	D	---	S	---	---	Goliad
A. Jolly1 (32)	D	---	---	160	---	Goliad
C. Edwards 1 (33)	D	PVC	S	---	---	Goliad
S. Schrade 1 (35)	A	Steel	---	---	---	Goliad
P. Breeden 1 (36)	D	PVC	S	---	---	Goliad
P. Breeden 2 (37)	A	Steel	S	---	---	Goliad
P. Breeden 3 (38)	A	PVC	S	460	43.32**	Goliad
B. Schley 1 (39)	D	---	S	---	---	Goliad
L. Schrade 1 (40)	D/A?	---	S	---	68.57**	Goliad

Table 4.1 Water Well Inventory (Continued)

Well Name	Use	Construction	Lift Method	Depth Feet From Surface	Water Level Feet BGL*	Aquifer
R. Tolbert 3 (34)	A	PVC	S	---	---	Goliad
E. Abrameit 1 (43)	A	PVC	S	---	---	Goliad
Abrameit Windmill (44)		PV C	T	342	---	Goliad
K. Liesman 1 (45)	A	---	S	---	---	Goliad
R. Brown 1 (46)	D	PVC	S	---	---	Goliad
H. Becker 1 (47)	D/A	PVC	S	---	21.18**	Goliad
W. Wimberly 1(48)	D/A	---	S	---	---	Goliad
L. Bitterly 1 (41)	D/A	---	---	---	---	Goliad
D. Wacker 1 (42)	D/A	---	---	---	---	Goliad
Dornberg 1(49)	D	---	S	---	---	Goliad
K. Gray 1 (17)	---	---	No Pump	---	36.04**	Goliad
J. Jacob(7) Old Rig Well	A/I	PVC	S	---	220	Goliad
J. Jacob(****) (New Rig Well)	I	PVC	S	440	----	Goliad

Notes: *BGL = Below ground level.

**Water level measured from below the top of casing (BTOC).

***Water level estimated by owner.

**** See label on map.

A = Agricultural use. D = Domestic use. I = Industrial Use. S = Submersible Pump. T= Turbine.

See Figure 4.1 for well locations. The second number following each name gives the location of the well on Figure 4.1, except for the J. Jacob New Rig Well. It is labeled on the map.

Goliad: Although the depth of many of the wells listed could not be verified by the owner or through TDWR well records, the wells are assumed to be completed in the Goliad Aquifer.

Figure 4.1 Water Well Inventory (See Map Appendix)

It should be noted that a few wells whose locations have been recorded were not sampled. This is not an unusual occurrence when conducting water well inventories covering an extensive area. The three most common reasons why a well would not be sampled are: 1) the well is no longer functional; 2) permission cannot be obtained from the owner; and 3) the owner cannot be contacted. Fortunately, nearly all of the wells that were identified during the survey were sampled. The water quality evaluation, which is the subject of Section 5.0, is comprehensive in that it includes analyses of 28 constituents.